SEQUENCE LISTING

<110> Schuetz, Ekkehard
Urnovitz, Howard B.
Chronix Biomedical, Inc.

<120> Diagnostic Detection of Nucleic Acids

<130> 018651-000320US

<140> US 10/115,278
<141> 2002-04-01

<150> US 60/280,523
<151> 2001-03-30

<160> 36

<170> PatentIn Ver. 2.1

<210> 1
<211> 288
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:AluJ consensus sequence

<400> 1
ggccgggcgc ggtggctcac gcctgtaatc ccagcacttt gggaggccga ggcgggagga 60
tcacttgagc ccaggagttc gagaccagcc tgggcaacat agtgaaaccc cgtctctaca 120
aaaaatacaa aaattagccg ggcgtggtgg cgcgcgcctg tagtcccagc tactcgggag 180
gctgaggcag gaggatcgct tgagcccggg aggtcgaggc tgcactgagc cgtgatcgcg 240
ccactgcact ccagcctgcg cgacagagcg agaccctgtc tcaaaaaa 288

<210> 2
<211> 288
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:AluSx consensus sequence

<400> 2
ggccgggcgc ggtggctcac gcctgtaatc ccagcacttt gggaggccga ggcgggcgga 60
tcacctgagg tcaggagttc gagaccagcc tggccaacat ggtgaaaccc cgtctctact 120
aaaaatacaa aaattagccg ggcgtggtgg cgcgcgcctg taatcccagc tactcgggag 180
gctgaggcag gagaatcgct tgaacccggg aggcggaggt tgcactgagc cgagatcgcg 240
ccactgcact ccagcctgcg cgacagagcg agactccgtc tcaaaaaa 288

<210> 3
<211> 289
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:AluSq consensus
sequence

<400> 3
ggccgggcgc ggtggctcac gcctgtaatc ccagcacttt gggaggccga ggcgggtgga 60
tcacctgagg tcaggagttc gagaccagcc tggccaacat ggtgaaaccc cgtctctact 120
aaaaatacaa aaattagccg ggcgtggtgg cgggcgcctg taatcccagc tactcgggag 180
gctgaggcag gagaatcgct tgaacccggg aggcggaggt tgcactgagc cgagatcgcg 240
ccactgcact ccagcctgcg caacaagagc gaaactccgt ctcaaaaaa 289

<210> 4
<211> 289
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:AluSp consensus
sequence

<400> 4
ggccgggcgc ggtggctcac gcctgtaatc ccagcacttt gggaggccga ggcgggcgga 60
tcacctgagg tcgggagttc gagaccagcc tgaccaacat ggagaaaccc cgtctctact 120
aaaaatacaa aaattagccg ggcgtggtgg cgcatgcctg taatcccagc tactcgggag 180
gctgaggcag gagaatcgct tgaacccggg aggcggaggt tgcgctgagc cgagatcgcg 240
ccattgcact ccagcctgcg caacaagagc gaaactccgt ctcaaaaaa 289

<210> 5
<211> 285
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:AluSc consensus
sequence

<400> 5
ggccgggcgc ggtggctcac gcctgtaatc ccagcacttt gggaggccga ggcgggcgga 60
tcacgaggtc aagagatcga gaccatcctg gccaacatgg tgaaaccccg tctctactaa 120
aaatacaaaa attagctggg cgtggtggcg cgcgcctgta gtcccagcta ctcgggaggc 180
tgaggcagga gaatcgcttg aacccgggag gcggaggttg cactgagccg agatcgcgcc 240
actgcactcc agcctgccga cagagcgaga ctccgtctca aaaaa 285

<210> 6
<211> 287
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:AluY consensus
sequence

<400> 6
ggccgggcgc ggtggctcac gcctgtaatc ccagcacttt gggaggccga ggcgggcgga 60
tcacgaggtc aggagatcga gaccatcctg gctaacacgg tgaaaccccg tctctactaa 120
aaatacaaaa aattagccgg gcgtggtggc gggcgcctgt agtcccagct actcgggagg 180
ctgaggcagg agaatggcgt gaacccggga ggcggagctt gcactgagcc gagatcgcgc 240
cactgcactc cagcctgcgc gacagagcga gactccgtct caaaaaa 287

<210> 7
<211> 287
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:AluYa5
consensus sequence

<400> 7
ggccgggcgc ggtggctcac gcctgtaatc ccagcacttt gggaggccga ggcgggcgga 60
tcacgaggtc aggagatcga gaccatcccg gctaaaacgg tgaaaccccg tctctactaa 120
aaatacaaaa aattagccgg gcgtagtggc gggcgcctgt agtcccagct acttgggagg 180
ctgaggcagg agaatggcgt gaacccggga ggcggagctt gcactgagcc gagatcccgc 240
cactgcactc cagcctgcgc gacagagcga gactccgtct caaaaaa 287

<210> 8
<211> 286
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:AluYa8
consensus sequence

<400> 8
ggccgggcgc ggtggctcac gcctgtaatc ccagcacttt gggaggccga ggcgggcgga 60
tcacgaggtc aggagatcga gaccatcccg gctaaaacgg tgaaaccccg tctctactaa 120
aactacaaaa aatagccggg cgtagtggcg ggcgcctgta gtcctagcta cttgggaggc 180
tgaggcagga gaatggcgtg aacccgggag gcggagcttg cactgagccg agatcccgcc 240
actgcactcc agcctgcgcg acagagcgag actccgtctc aaaaaa 286

<210> 9
<211> 294
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:AluYb8
consensus sequence

<400> 9
ggccgggcgc ggtggctcac gcctgtaatc ccagcacttt gggaggccga ggcgggtgga 60
tcatgaggtc aggagatcga gaccatcctg gctaacaagg tgaaaccccg tctctactaa 120
aaatacaaaa aattagccgg gcgcggtggc gggcgcctgt agtcccagct actcgggagg 180
ctgaggcagg agaatggcgt gaacccggga agcggagctt gcactgagcc gagattgcgc 240
cactgcagtc cgcagtccgg cctgcgcgac agagcgagac tccgtctcaa aaaa 294

<210> 10
<211> 578
<212> DNA
<213> Bos sp.

<220>
<223> normal cow "180" clone # 180T7REV

<220>
<221> modified_base
<222> (1)..(578)
<223> n = g, a, c or t

<400> 10
gagctcggat ccactagata acrgccrcca gtgtgctgga attcgccctt magcagtggt 60
aacaacgcag agtacttttt ttttttttt ttttttttt ggacatttya ttaktatcar 120
gactkttrag gaacaagatg acactgacat gggttnatca tccccmcagt tagaaagtac 180
taagctttat ctgtttcctt ctcaggccaa tctctacctc tgcattagat atgaagacat 240
ctttcttccc attcctacca raaggaacat ttaagactat ttaamatgca ttgcttctgt 300
tggttttaca agtattggct aggcactatk taacggcgaa ctttagagag ggaaaragtg 360
gcagttacta ttggcaaatt atcaacctat gtgcagaatc cctgctgaat catttamata 420
ttrtcwcata cttatccccg cgtactctgc gttgttcacc mctgctttaa ggggcaaawt 480
tctacnnatn ycccccccc gggggnccgc ncngnncntn matcgggggg ccmaattscc 540
ccctnnngnr agbtcntana acaannccgc ggsgscgg 578

<210> 11
<211> 363
<212> DNA
<213> Bos sp.

<220>
<223> normal cow "180" clone # 180T9REV

<220>
<221> modified_base
<222> (1)..(363)
<223> n = g, a, c or t

<400> 11
tctcngatca ctanttcggc cgycantttg ctngawttcg cccttmagca gtggtaacaa 60
cgyagagtay ttttttttt ttttttttt nttttwhcaa tyattggaty thcgnragwt 120
gtttcgtcag aattatcacc attgtyatat tcaaaacyaa taakkttaay waagtaattg 180
tyacttacag cgncaattka ttcttttgca wctaaattgt tttcaatkat tacwtctttt 240
atttthttca ttwtttcgtw ccctttattc mtacctttda tttytttwwg gtcntccatc 300
ttttangccc ytnntckgtn taaaggttct agnggatctt cgtaaatttt ttgttttttt 360
ttt 363

<210> 12
<211> 645
<212> DNA
<213> Bos sp.

<220>
<223> normal cow "180" clone # 180T12REV

<220>
<221> modified_base
<222> (1)..(645)
<223> n = g, a, c or t

<400> 12
gagctcggat ccactantaa cggccgccag tgtgctggaa ttcgccctta agcagtggta 60
acaacgcaga gtacttttt ttttttttt ttttttttt tcaatcattg gttcttcgtg 120
aratttttcg tcaaaattat caccattgtm atattcaaaa ccaataaggt taacaaagta 180
attktcactt acagcgtcaa tagatacttt tgcaactaaa tggtttacaa tgataacatc 240
tgtaatttta ttcatgatat cgtaccattt attcatacct ttgatttctt taaggtcatc 300
catcgttaaa gcacctaaac gatataaagg ttcagtgaac ttcgcaaatt ccatgaaatt 360

tgtatcttct ggattgaatg ttgatacaaa tktttcgttc agtggaattt ttccnncttn 420
yaanggncnn gannaaaaag nttngccttc aataccatca attncaaaaa aaagncanac 480
ngactgtata aagcmcggac cactgcgnnn tanaacnnga aaangttttt tyctaagttt 540
catcmcagtc aanatnnanc gaaaggtggt ttngncannn tcgyvsgaan ngggggcccn 600
gnnannnnac ccnamncnnn gnnnngaaan aaaaamccam cccgg 645

<210> 13
<211> 374
<212> DNA
<213> Bos sp.

<220>
<223> normal cow "180" clone # 180T18REV

<220>
<221> modified_base
<222> (1)..(374)
<223> n = g, a, c or t

<400> 13
cggatccact agtaacggcc gccagtgtgc tggaattcgc ccttaagcag tggtaacaac 60
gcagagtacg cgggaaaaaa aaaaaaaaaa aaaavaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaatwaaaaa awwaaaaraa ttrtgagccg cattantnnn nntttntnnn ntatwtnntt 180
nnnannnnnn tnnttttttt tnaaaattnt tcycccctt nntcmcytnt ggggtkgggg 240
gttttcctcc cttttcccct ttttttnggg gcttttnntn nnnnnnnnnn tgggcsgcyk 300
cccaggggcs scgcggttnt tntnnttcca nnnnnggggg gtnttgnnna tttttgtgct 360
bttnnnnnnt nncc 374

<210> 14
<211> 801
<212> DNA
<213> Bos sp.

<220>
<223> normal cow "180" clone # 180T19REV

<220>
<221> modified_base
<222> (1)..(801)
<223> n = g, a, c or t

<400> 14
cggatccact agtaacggcc gccagtgtgc tggaattcgc ccttmagcag tggtaacaac 60
gcagagtwct ttttttttt ttttttttt ttttttttat ycacttctcc aaaaagaaga 120
atgattaamt ttatttagaa taataaacaa atgaaattga tctttactta gatctcggcc 180
aattcacgga gacgamgaac agtggaacgg acartggcag carcagtagt ggagacggtg 240
taarcaccac cagccatggt cttcttacaa cccttacact tccagatacc aacagcggta 300
csttgnacag catccttwcc acagaaggta caagtgtagg tggaatkttg agtgatttcc 360
atcatcttga cagtctttct gggagaggca ccataacgga gtaccgtatt taccggtgat 420
tccsccccttc ttaktkcgct ttgccatttt agattaaata ccaaagagga gccccgcgta 480
ctctgcgttg ttaccactgc ttaaggggcg aaattctaca gatttmcttc acnctggggg 540
cgctcgnagc ntacatatag ngggcaccat ttccccctat nnannntcan tatnacnnnn 600
cnnnnggggcg ggcggkgggk ccagcgtcat nnctaggann cccctgggcr ttncccnncw 660
ttnttcgcct ttggagannn ntcccccttt ttagccnnnt tcggcgttaa ttarccgagn 720
ggaggccmsc ccccgctcgc ccctcamcac acngttacgc gccatnnttg gagcsgnatg 780
ccgcgcgccc wttnggcgcg c 801

<210> 15
<211> 801
<212> DNA
<213> Bos sp.

<220>
<223> normal cow "180" clone # 180T21REV

<220>
<221> modified_base
<222> (1)..(801)
<223> n = g, a, c or t

<400> 15
gttcnggccg nctnccgttg gtggctntat gnttccatst gsgtccctgc tnttnccgcc 60
agtgctctcc gtgtttggct ntcccncncg ctctgbacaa aasaaagcca aacatcaaaa 120
ggccggcnnt gcntaaagcc aacnatanag ccctctctcn tccgtcnncg ccgtnccnng 180
cnntgcggcn ngcckcngcg gngnnnnctc tgcggnntcn tgcgggnngn ctnttttttc 240
tatgtgcccn cgcctctngc cagcagtntn tnttnctcnn ttctggcctc tttcttgcnn 300
ttttctttgt ggtcnctttn cckgccnttn ncccttntck tncncnctct tccttcttct 360
ctctctctct tctctttctc tctckcttcg cntcntnntn tntnntntnn ncgncgcctt 420
gctttgnttt nttttgtcgg nttnctgtgt ntttntgttn tggggntttg ntntcctgcn 480
ntcscntttc cnctttttgtg ggnctttttgg cngttttgtt nnyncngtgt gtntccntgg 540
gcnttgnnnc gttnnnntgt tsnyctntct cnskttnynn ynnynynnnc tttntctntt 600
nnnctttgct ntcgctgtsn gnctgctstn gttsntgncg ctctntttct ttgtnnttns 660
nttttctctn ctctctcttc tcnctcgtcg ngnsnsnnnc tctctctctn ygtgtgnnyc 720
ctgtgtncck ctctgtctgn tntttcgtck cncnnttttt nccgctntgt nntntttnnc 780
cyctctcntc tnntnttgtn n 801

<210> 16
<211> 590
<212> DNA
<213> Bos sp.

<220>
<223> normal cow "180" clone # 180T22REV

<220>
<221> modified_base
<222> (1)..(590)
<223> n = g, a, c or t

<400> 16
gtwaaggcga mtaccgatgg wggmtntatg attccatgag ggctacctga caaatnccgc 60
mgatgactca aagaanataa aannnaanan nnnaagkaba tttttcgarc ggcctrtccn 120
ttggccttga cnatataatn ggacagaaaa taaymmmyct agaaamatmc mcacnagata 180
gcctwtgant tttcgccasm myccccyac gcgaaracgc anngcgggcc cgaccggcga 240
ganggcatcc ggakrggmcc caccatgcan gggggtatgc cckgaggggn tnacacgctg 300
ggacantttg gccggaaggn cctgggggga atgaagaaaa caacngcaaa gmatgggcca 360
ggaaagrgan ggannggmga ntcccaarcn aaagatwwcc gcatarntga ntttaannnt 420
tccmgaaaaa caccccnan aamcctccaa ccaaccgatc nnaaggcaag cangaagggr 480
cgatngccgg ggggtrtacg aggtgtnnnn ccgcgatgaa cctatttayc cggakktaac 540
sggncgsgca atttttggka agntctccaa aamaaacaat ttggtccaag 590

<210> 17
<211> 504
<212> DNA
<213> Bos sp.

<220>
<223> normal cow "180" clone # 180T28REV

<220>
<221> modified_base
<222> (1)..(504)
<223> n = g, a, c or t

<400> 17
gagctcggat ccactagtaa cggccgccag tgtgctggaa ttcgccctta agcagtggta 60
acaacgcaga gtacttttkt twttttttt tttaantttc aaagtaaagg tacctggttc 120
cctgctgccg gaacaacaga tcaccaagag gaaagaccca gcaagacagw actcgccgtg 180
aggcanccgc ctgtccaggt cmaaggtcca amwamgagct ttttaactgc aacaacttta 240
atatacgcta ttggagctgg aatwaccgcg gctgctggca ccagacttgc ccnccaatwg 300
ttcctcgtta agggatttaa attgtactca ttccaattat acgacgnawa aggscgnata 360
ttgttacaaa ttgtcactac ctccccgngn nggcganngg ggaannngcg cgccnnnngn 420
mttcgtngga ngnggnagcc anntcncagg nnccnnnccg gaatngaanc gntanncccg 480
nnaanncgnn nnaannangg nngg 504

<210> 18
<211> 293
<212> DNA
<213> Bos sp.

<220>
<223> normal cow "180" clone # 180T29REV

<400> 18
gagctcggat ccactagtaa cggccgccag tgtgctggaa ttcgccctta agcagtggta 60
acaacgcaga gtagcgggac tggaagttga gagtacaatg tctacaggaa ggaattcatg 120
catggtatgc tgcagtgtgt tgagtgcgtt gttgtagggg ttaccgcgtg tgtggcaatt 180
gtgatgatgt tggcttgtag caaatgacca ggagttgatg ggtgttggtg attgtwagac 240
aagcatggtg ctggtcgatt agtatttgta atagctgtgt ctaaaaaaaa aaa 293

<210> 19
<211> 410
<212> DNA
<213> Bos sp.

<220>
<223> normal cow "180" clone # 180T30REV

<220>
<221> modified_base
<222> (1)..(410)
<223> n = g, a, c or t

<400> 19
cggatccact agtaacggcc gccagtgtgc tggnaattsg cccttdagca gtggtaacar 60
cgcagagtac gcgggtkatr rragaccaaa trrdatataa drdgcagtaa aadrdrrrrd 120
ddkratkrdn rgrkacataa agataaadkg rggtgaaatr raagggggnt nggggbkktt 180
kkggnknntt cngaggttnn grcaraagtt ratgggcaga aaaggkgtgn tntgncnktn 240
ntgbktkggg ccnnncscbt cnnnnncctn nnncttgngn gbkggnknns cggnnkscng 300
nttcccnnnn kbkkkktkkb gcknantcnn tnnnacnncc gngbgggngn gnggkgnggk 360
cnnccccccnc cnnnnccnnn cccgggsggn ggtgntnnga ttgntngsgg 410

<210> 20
<211> 798
<212> DNA
<213> Bos sp.

<220>
<223> normal cow "180" clone # 180T31REV

<220>
<221> modified_base
<222> (1)..(798)
<223> n = g, a, c or t

<400> 20
agctcggatc cactagtaac ggccgccagt gtgctggaat tcgcccttaa gcagtggtaa 60
caacgcagag tacgcgggcc agtgatatat tcagatccta ttccttcaat gagatttcca 120
accattcagt ttcaatatgt tcaaaaaaga agattcaagt aatcatgcac atcaaacact 180
tttttcactg atcacctctt ttttttttatt cgcaaatcaa atcatcactt tttgttattt 240
tccaaaggag catttttttt ctcctatatt ttactaggtt aattttagta tatattattt 300
atkatttatk atkatkatca tctgakttgg tggttctcat ggctggtctg gttggtgctt 360
acctggtgat ctcttgggtt ctgttcctct ggtcttttga tctatgtcaa gtgtaattgg 420
gcncctttttt tgcttactgg tcttttgata ctcgcgagtt agccctaggc ttttcttttt 480
ttcggcagaa tgtatacatt tgatgatgag atttattttn gaggantnat tctattcagc 540
tcactttcta caacttcagc ttcaaacatt ttnagncgan gggacanngg ngnannnaaa 600
ttnngnaana nccanaancn caccantntg krtktnngga gratcnctnn aagagcnntn 660
ckbtntngnn nnngaagggg aagncttnna ngggggggant cnatgcnnnn nnggggnnna 720
raaagttnng anntncgttn cgttaaatgg nnnnnannng gnngcnantg gggnnnngnn 780
nggncaaaca aaacnnnc 798

<210> 21
<211> 239
<212> DNA
<213> Bos sp.

<220>
<223> BSE cow "200" clone # 200T4REV

<220>
<221> modified_base
<222> (1)..(239)
<223> n = g, a, c or t

<400> 21
tcgnntytga ntccnctata tnyagcyacc agtktnmtng nnttcagcmc twtngmtatr 60
gttnytaaga nttatttcgk gnntgktttt tnctctnatt cttngagaan ngtntnnnth 120
tatcnctnct ggtthtnanc nnayttgncn ctgttnnkgn ttntcccynt htttnttttt 180
tcattnngnc tcntttncct nnnntgnanc nggtngnnnc cntcnnnntt tnggtnncc 239

<210> 22
<211> 741
<212> DNA
<213> Bos sp.

<220>
<223> BSE cow "200" clone # 200T5UNI

<220>
<221> modified_base
<222> (1)..(741)
<223> n = g, a, c or t

<400> 22
tagggcgaat tgggccctct agatgcatgc tcgagcggcc gccagbgtga tggatatctg 60
cagaattcgc csttaagcag tggtaacaac gcagagtacg cgggacagtt cckttggaat 120
tatagcatag aaatcgactt caaaatggct caacgtgtta cttacagaag aagaaatcca 180
tgtatgttta tatctaagta tgaccaggac tattgaacta taagaatgaa agagaagagc 240
aaaggacggt gatacggtcc aatgagaaat ttatgacaaa atacaatacc aaatctaaca 300
agattaaggt tgttaagacc scaggtggta aattagttgc ccaacacgtc aagaagctcg 360
cttctagacc aaagtgtggt gactgtggtg atgstttaca aggtatctbt actttaagac 420
caagagaata cgctcaagtt tctaagaccc acaagaccgt ccaaagagcs tacggtggtt 480
stagatgtgc taactgtgtc aaggaaagaa ttgtcagagc tttstctgat ccgagnacaa 540
aagatcgtta agggagtgtt gaaagaacaa caagataagg cacaaaagtc cgcccaagga 600
ngaccggkaa gaaatangtt aacttaggnt tgamgctttg ttatatctag tttttggttt 660
tratggttct tctatgtaaa tttctttgtc gttttaatac acatttttac gttacaaaac 720
ggcgcgcncn nnnnnnctsg c 741

<210> 23
<211> 474
<212> DNA
<213> Bos sp.

<220>
<223> BSE cow "200" clone # 200T6REV

<220>
<221> modified_base
<222> (1)..(474)
<223> n = g, a, c or t

<400> 23
cratccctag ataayrgcca gccantttgc tngaattcgc ccttaakmwa tagttacwam 60
gcagaatacg ctgggggakg yttaatttgc tgatagaaam aagatcatgc cattacactc 120
cancctggag caacaaagag ctaaattcct tcttaaataa ataaatagcc agatagcggt 180
gagctcacac ctwgttatcc cancnctttg gtaggcaaag gctatttggt tcwyatttgt 240
canratttct akaccaagcc tggccancat agtgaaacmm aaatcatcwt amataaaata 300
ttctannttt taaccactgc gtagtgatng catttgcact gtaatcccag ctaacgtggg 360
aggcanggga ntcacctgna gccggakccg gangttttca agtaagtckn gatcagccam 420
tgmactccaa mmtgkggknc aaaacaatam tcagtctcgn nnnnknnnnt tttt 474

<210> 24
<211> 589
<212> DNA
<213> Bos sp.

<220>
<223> BSE cow "200" clone # 200T7REV

<220>
<221> modified_base
<222> (1)..(589)
<223> n = g, a, c or t

<400> 24
gaatccacta nataacaggc cgccagtgtg mtggaattcc cccttaanma atagtaacaa 60
mgcagaawcg cggggataag gaaatacaca aagaaawawr aaaammaaaa caaagggata 120

aaamtaccgt tttagatgaa ctttttcagc aaacttggta ttacagatag ggaatgccaa 180
agagaggcta gattctattt attcatcttc atatagctgg gctaaagggc atagcaaagg 240
attttaattt aggtcatatg atttaggggt tngcattttt tacggtacat aaatttgggg 300
tctgtrmgca tgwgttngct anagaggatc taagcaggct attcagnnnt cattnnngnc 360
tnnagaacaa aagaaggsca ggtgtaatgg ctcatgccta taatcccagc actttagaga 420
ggccgaggtr gaaggatttn tttagggcag gntttcaagn ncagcctggn cnnaccgcng 480
nccttttctc tgcaaaaatt tttatcnatt agccanttnt ggtggtncnt ncctgttctt 540
ngctacctta aagngggstg nnnnnnggan aattcnncct nngggttna 589

<210> 25
<211> 480
<212> DNA
<213> Bos sp.

<220>
<223> BSE cow "200" clone # 200T8REV

<220>
<221> modified_base
<222> ()..(480)
<223> n = g, a, c or t

<400> 25
ggatccacta gtaacgkccg ccagtgtgct ggaattckcc cttaagcagt ggtaacaacg 60
cagagtactt ttttttttt ttttttttt ttttttaaam aatttttttw twttgagara 120
aswcacavac wctgagkggy tyyccttcwa aacagctcam aamccaaaaa wstgcytccc 180
catttkttsw cattgcywya tcragggtag crgggggttk wttttttggc tccccccacc 240
cccatctmaa raagagaaaa gggggycctk kttttwyttc mcagagtgtc krgrrggttc 300
ccccycctst cattwttact rwmaaaaatc gttctgwcac agtgatttsy cyttcccccg 360
cgactctgcg ttttymccac tkttwagggg mrawttctga agatwtcyat cacactgggg 420
gccgctagag catacatcta gggggcccaa tncncnnnnn ngngagtggt wtcaagkbkt 480

<210> 26
<211> 801
<212> DNA
<213> Bos sp.

<220>
<223> BSE cow "200" clone # 200T9REV

<220>
<221> modified_base
<222> (1)..(801)
<223> n = g, a, c or t

<400> 26
gatccactak taacggccgc cagtgtgctg gaattytccc ttaagcagtg gtaacaacgc 60
agagtacgcg ggctaagaac tcgaatgatg cntaakctat ccaacccact ttcctcagtt 120
tttatttacg cagaaattga aattaacaaa ctaatttctg agtcttaagt gaaattgttt 180
tcgttttatt taaagttacc nttgacttac atagttttaa ccttctggaa agttcttctt 240
ttttctctct ctcttcctgt tcctgattgc cacactggat agaaagttct aaatgaatac 300
ttaggtttga aagtattttt ctacatctat ttattttgcc attstacaga tttggctcca 360
ttgtcctaag gtttcagcac aataaaaatc tcgtttctcc cagtgcttgt sttgacatca 420
atgtagcatt aaaaagtcca agacttttac agactaattt aagctgaaca aggaaatata 480
atctggtacc tactaagaaa cataaatggg cctgggttgc tagcagttcc tggaagtcac 540
tgtgttttcc aataaatcca tgcaatgcgt aacagggaaa gagaagccac aaagcagagg 600
ctgggactgt tgggatcatg ttagtaatta aactctctct cctcttgaga ctcagtgaga 660
gccttccctt acaaagaaaa aagtgacaca gttgctgcca aagcggatgt gacacgcgtc 720
ctctcactct aagagattaa aataaangcc tcbtgcagtc cttttctcca aatacacnaa 780

anaanttggc tgggctgaag g 801

<210> 27
<211> 354
<212> DNA
<213> Bos sp.

<220>
<223> BSE cow "200" clone # 200T10REV

<220>
<221> modified_base
<222> (1)..(354)
<223> n = g, a, c or t

<400> 27
ccccdabncg sccgccantg kscgggnntk macbnnbsgg cgggsskgcg gcgcngagkt 60
cgggggggggg ggttgggggt ggtggaaana aatttttwtt atnnnnnnnt tnawmttttt 120
tttttnnnnt nttnttttttt ttttttnttt ttnnktnttt ttttnntnnt nttttttttn 180
ntnttnnttg gntncnggnn nttttnnnnt tnttgttggg tgsggcgcgg sssssscccs 240
sgcnaaatan nttcggggtg gtgggggtgt tggtnnnntk ggktgtnnnn nttttatttgt 300
tttnnntnnt ttkgttgtgt gkgkkgtggt gggggggggg gggsggcggg tggg 354

<210> 28
<211> 734
<212> DNA
<213> Bos sp.

<220>
<223> BSE cow "200" clone # 200T11REV

<220>
<221> modified_base
<222> (1)..(734)
<223> n = g, a, c or t

<400> 28
tccactagta acggccgcca gtgtgctgga attcgcmntt aagcagtggt aacaacgcag 60
agtacttttt ttttttttttt ttttttttttt ttttttttht tgagtaggag ttttgmtatt 120
tttgcccagg ctggcgtgca atggtatgat ctcggttmac cgaaamnttc gttttytgga 180
ttcaggctag tcmattgcct magcctcvva agtagctggg attamaggsg ggcagmacma 240
tgtgtgghta attttktatt tttadwaaaa atggggtttc tcmatgttga tmaggvtggt 300
htaaaactcc caacctcagg tgwtccaccc gsnttggcct cvaaaattgc tgggtttaaa 360
ggtgtgagcc aaagtgcccg gcctctgmat tagttttyta agaawaatgg tctcaagctt 420
aataaatgtt wttgcaaagg aaatgatcat tttttaaatg gcccacagag tattcyatga 480
cccgcgtant ttgggttggt aaaaatgttt aaggcgggaa ttttnagata taataaaatg 540
gggggcnttt nnaattaatt ttagagggsc cattacccta taatnantcn tnttataatt 600
wtattntngg gagtgrtstk tataaaaatg tannntnggn aaaaaatага ngntnaaaaa 660
aataaattnn gnktttgtcg nanntnnncn ytttttncnna nntaggngkn nttnangaag 720
ngggnnggnn nccg 734

<210> 29
<211> 801
<212> DNA
<213> Bos sp.

<220>
<223> BSE cow "200" clone # 200T12REV

<220>
<221> modified_base
<222> (1)..(801)
<223> n = g, a, c or t

<400> 29
tcggatccac tagtaacggc cgccagtgtg ctggaattcg cccttaagca gtggtaacaa 60
cgcagagtac gcgggtgctg tcactgggaa cctggacgac ttctcacttg aaaacttgca 120
ccacctcatg ccttccctta tcataagcct gggcaacctc ntaatattct ccccctcaca 180
atagagacaa ggcaacctgc agtaaaagtt tgagcaaact ggccgggcgc gatgcctcgt 240
gcctgtaatc ccagcgcttt gggaggccga agtgggtgga tcacttgagg tcaggaattc 300
gagaccagtc tggccaacat ggtgaaaccc cgtctctact aaaaatacca aaaaaatgag 360
ctaggcatgg tggcacatgc ctgtaatccc agctactcgg aaggctgagg caggagaatc 420
tcttgaaccc aggaggtgga tgttgcggtg agccgagatc ctgccattgc actccagcct 480
gggcaacagc acgagactcc atcycaaaaa aaaaaaaaan nnnnnnnann nnctytccgt 540
tgtwaaccac tgctgtaagg gggcatattt tcgtgsngnt tttccatccc nntkgggngg 600
ncmgttngnn naattnnatt tgtngnaggg gccccatttt yccccccttt tnnntgnant 660
cnntnntayg ayattgtbas cgngscgcgg tggtgkkrtt gwkgatnggk tnnnttnnnc 720
ntgngggana aaacccccgt ngngngnnnw aaaccaaaaa cangtnnntg gccttngnnn 780
nnnnntccnc ntttttnncn n 801

<210> 30
<211> 801
<212> DNA
<213> Bos sp.

<220>
<223> BSE cow "200" clone # 200T13REV

<220>
<221> modified_base
<222> (1)..(801)
<223> n = g, a, c or t

<400> 30
gcggrgccac tagtaacggs cgccagtgtg ctggaatkcg ccsttaagca gtggtaacaa 60
cgcagagtac ttttttttttt ttttttttttt ttttttcatt tgcttaactg gaaaggcgtt 120
tccaattgat tgaatagcaa cgataactcc tcbtataatg ccagtagcta tctttttgtc 180
ttgctcgtct attcgatccc agcccgacaa aatggtaatt atcaaagtaa gaacgatcgt 240
ggtaattgtt aaccstgcat cccaacttcg attgattcgt ctgagccgag ttatttcttg 300
agttaattct ttaatttctt tctctaagag tttcctttgc ttctcgatta tagataaaga 360
ttgagtttgc attttttctc tgatttttga gctgagacaa gttttgagta aatgcacctt 420
gctgtgagaa acagtcagtc tgatatctac ttaagcaggt aacgcttttt cataagcctt 480
agcaagtttg atgtggnatt cattctgcca atacagctct ccgttatagc caaaagcgaa 540
cttatcccaa tctttaagtt tgagatgaac tagcaaattt ctgttcacaa taaagttcat 600
catgtgtctt gcttgccaat actctcctgc aaagttttct caatgaactg ctggattgaa 660
tgccacacca gcagcagtnt aaktgaatcc ccatgacttg nttcgagtcc aaaagatgca 720
ctttttatag cctgaaattc atcaaaatkc catttggmat caagtaaacg ttttatccca 780
ctcytgctga ccccccccaaa a 801

<210> 31
<211> 577
<212> DNA
<213> Bos sp.

<220>
<223> BSE coe "200" clone # 200T14REV

<220>
<221> modified_base
<222> (1)..(577)
<223> n = g, a, c or t

<400> 31
agctcggatc cactagtaac ggccgccagt gtgctggaat tcgccmttaa gcagtggtaa 60
caacgcagag tacttttttt ttttttttnt ttttttttnn taaacvwawa aatktgtatw 120
aaaaacgaca aaraaattta catagaagat mccattaaaa accaaaaact agatattaca 180
aagcttcaat ccttaagtta acttatttct taccggtctt cttggcggac ttttgtcccw 240
tatcttgttg ttctttcaac accccnhtaa cgatcttttk ttcttcgawa aaaaaagctc 300
tgacaattct tyccttgaca cagttagcac atctagaacc cccgtagcyc tttggacggc 360
cttnggggnc ttaraaactt gagcgnattc ccttggtctt aaagtagana aaccttgtaa 420
agcatcacca cagncaccac acnttggtct aaaancgacc ttcttacgtt ttgggmcaac 480
taatttacca cmskgggggt ctttaacgcc cgtgnccttg nanantggga awgaatnnng 540
ccaaaaaakn cncatttgga ccgnatcacc gnccttt 577

<210> 32
<211> 648
<212> DNA
<213> Bos sp.

<220>
<223> BSE cow "200" clone # 200T15REV

<220>
<221> modified_base
<222> (1)..(648)
<223> n = g, a, c or t

<400> 32
gagctcggat ccactagtaa cggccgccag tgtgctggaa ttcgccctta agcagtggta 60
acaacgcaga gtacgcggga tacttaagtt ctgttaaagt tagcaactac tttcgtatta 120
aatcatcaag aaaatcacat aggccstaaw wattataaaa gaaaatatkc tataaaaagg 180
aatgaaatgn tgccatttgc agagacctgg atagacctag agactgtcat aagactgaat 240
tagtcagaaa gagaaaaaca aatatcattt gttatattat taacacataa tgtggaatct 300
agaaaaatgg tatagattat ctttttgcaa cacagnngtt gagacaccga tgtagagaac 360
atctggatgc tggkgggggа aggagaaagg gggtgatgaa ttgggagatt gggattgata 420
tntntnccct nctngctgta agtngntaac taatgngnac stgctgtncn gcncnnggnn 480
ntttactcag tgctctatgg tgacctcnnn tggnnnngnn ntcbnnnckg agaggggata 540
tatgtaaaca tatcgttgnt tccctttggc tntngggccg nnactnnccc nattttgttn 600
ngccccтttt ttccnntnnv ngntnnttta aatgcgggnn nngaggcg 648

<210> 33
<211> 72
<212> DNA
<213> Bos sp.

<220>
<223> Alu-like sequence containing fragment from BSE cow

<220>
<221> modified_base
<222> (1)..(72)
<223> n = g, a, c or t

<400> 33
aagatcatgc cattacactc cancctggag caacaaagag ctaaattcct tcttaaataa 60
ataaatagcc ag 72

<210> 34
<211> 70
<212> DNA
<213> Homo sapiens

<220>
<223> human sequence containing Alu repetitive sequences

<400> 34
aagatcatgc cattgcactc cagcctgggc aacaagagct aaattccttc ttaaataaat 60
aaatagccag 70

<210> 35
<211> 111
<212> DNA
<213> Bos sp.

<220>
<223> Alu-like sequence containing fragment from BSE cow

<220>
<221> modified_base
<222> (1)..(111)
<223> n = g, a, c or t

<400> 35
gcgtagtgat ngcatttgca ctgtaatccc agctaacgtg ggaggcangg gantcacctg 60
nagccggakc cggangtttt caagtaagtc kngatcagcc amtgmactcc a 111

<210> 36
<211> 108
<212> DNA
<213> Homo sapiens

<220>
<223> human sequence containing Alu repetitive sequences

<400> 36
gcgtggtgat ggcatatgcc tgtaatccca gctacgtggg aggcagggga atcacttgaa 60
gccggaagcc ggaggttgca gtaagtcgag atcagccact gcactcca 108